

1. Method for providing non-transparent fax services in a  
5 mobile network,  
c h a r a c t e r i s e d i n that the mobile network  
is provided with an IP layer for transporting the fax  
messages, which fax messages are transported according to  
ITU-T protocols T.4 and T.30 whereupon the messages are  
10 mapped onto TCP or UDP packets according to the ITU-T T.38  
protocol, which in turn are mapped onto RLP frames.

2. Arrangement according to claim 1,  
c h a r a c t e r i s e d i n that in order to  
15 handle long delays and avoid errors, the fax messages are  
transmitted according to the principles outlined in GSM  
Technical Specification 03.46 or other similar principles  
such as those outlined in 3G Technical Specification  
23.146.

20 3. Method according to claim 1 ~~or 2~~,  
c h a r a c t e r i s e d i n that TCP/IP header  
compression is applied.

25 4. Method according to claim 3,  
c h a r a c t e r i s e d i n that mapping of IP  
packets onto RLP frames is performed by transporting the IP  
packets on an asynchronous connection using the Point to  
Point protocol (PPP) (as specified in IETF RFC 1661 and  
30 1662] between the Mobile Station (MS) and the Interworking  
Function (IWF). ) \.

5. System for providing non-transparent fax services in a  
mobile network,  
35 c h a r a c t e r i s e d i n that the mobile network  
is provided with an IP layer for transporting the fax  
messages, which fax messages are transported according to

ITU-T protocols T.4 and T.30 whereupon the messages are mapped onto TCP or UDP packets according to the ITU-T T.38 protocol, which in turn are mapped onto RLP frames.

- 5 6. System according to claim 5,  
c h a r a c t e r i s e d i n that in order to handle  
long delays and avoid errors, the fax messages are trans-  
mitted according to the principles outlined in GSM  
Technical Specification 03.46 or other similar principles  
10 such as those outlined in 3G Technical Specification  
23.146.
- 15 7. System according to claim 5 ~~or 6~~,  
c h a r a c t e r i s e d i n that TCP/IP header  
compression is applied.
- 20 8. System according to claim 7,  
c h a r a c t e r i s e d i n that mapping of IP  
packets onto RLP frames is performed by transporting the IP  
packets on an asynchronous connection using the point to  
Point protocol (PPP) [as specified in IETF RFC 1661 and  
1662] between the Mobile Station (MS) and the Interworking  
Function (IWF).
- 25 9. System according to claim 5 ~~or 6~~,  
c h a r a c t e r i s e d i n that the mobile network  
is provided with a fax gateway, which may be placed in a  
Mobile Switching Centre (MSC) or separated from the MSC by  
an IP network, and which fax gateway is compliant with T.38  
30 terminology.
- 35 10. System according to <sup>Claim 5</sup> ~~any of the claims 5-9~~,  
c h a r a c t e r i s e d i n that the system can be  
adapted to packet switched transmission in the mobile  
network.
11. Fax terminal for use in a system according to <sup>Claim 5</sup> ~~any of~~  
~~the claims 5-10~~, on the mobile station side,

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15. Fax terminal according to claim 14,  
c h a r a c t e r i s e d i n that said adapter is in  
form of downloadable software.